## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1

2

<sup>-</sup> 5

6

7

8

9

10

11

12

13

14

15

1. (Currently Amended) An apparatus for processing a signal, comprising:

a signal dispensing unit [[for]] dispensing an output signal a first personal computer signal output from a personal computer in the form of [[an]] a first analog or digital signal directly from said personal computer;

an analog to digital converter converting the first analog signal from said signal dispensing .

unit of said personal computer to a first digital signal of said personal computer;

a signal processing unit [[for]] performing picture-in-picture signal processing enabling one of [[a]] the first digital personal computer signal generated dispensed by said signal dispensing unit through said analog to digital converter and a decoded second first signal as a second digital signal input from an outside source to be displayed on a main screen and the other to be displayed on at least one sub-screen, and [[for]] said signal processing unit processing said first second digital signal to be displayed alone on said main screen, said first second digital signal being any one of a television signal and a video signal;

a digital to analog converter converting a digital output signal of said signal processing unit into a second analog signal;

an outputting unit [[for]] directly connected to said digital to analog converter and directly connected to said signal dispensing unit of said personal computer, receiving said first analog signal from said signal dispensing unit and said second analog signal from said digital to analog converter converting said digital output signal from said signal processing unit, outputting said the first analog personal computer signal generated dispensed from said signal dispensing unit in response to a control signal for displaying only said the first personal computer signal, and outputting said second analog signal from [[an]] said digital output signal of said signal processing unit in response to a control signal for displaying said the first personal computer signal and said first second signal in picture-in-picture format; and

a monitor [[for]] amplifying the signal output from said outputting unit to be displayed.

- 2. (Currently Amended) The apparatus of claim 1, further comprising a signal conversion unit for converting said picture-in-picture signal output from said signal processing unit into an analog signal before a signal is output from said outputting unit comprised of the first analog signal being outputted from said signal dispensing unit being included in said personal computer, with said personal computer sending the first analog signal to said analog to digital converter being directly connected to said signal dispensing unit of said personal computer, and said personal computer sending the first analog signal to said outputting unit being directly connected to said signal dispensing unit of said personal computer.
  - 3. (Currently Amended) The apparatus of claim 1, with said signal processing unit,

		•
2	compri	sing:

5

6

7

9

10

11

12

1

2

3

5

1

2

3

3	a decoding unit converting said first second signal into a digital signal and decoding said first
<b>,</b>	second signal;

a scan rate conversion unit [[for]] converting a scan rate of said decoded first second signal as the second digital signal; and

a signal processing unit [[for]] performing a picture-in-picture signal process on said first second signal whose scan rate is converted and said first digital personal computer signal, so that accommodating one of said first second digital signal and said first digital personal computer signal is displayed on said main screen and the other of said first second digital signal and said first digital personal computer signal is displayed on the plurality of sub-screens, or for processing said first second signal to be displayed alone on said main screen.

- 4. (Currently Amended) The apparatus of claim 1, with said decoded first second signal input from an outside source, further comprising:
- a decoding unit converting said first second signal into a digital signal and decoding said first second signal; and
  - a scan rate conversion unit [[for]] converting a scan rate of said decoded first second signal.
  - 5. (Currently Amended) The apparatus of claim 2, with said decoded first second signal input from an outside source, further comprising:
    - a decoding unit converting said first second signal into a digital signal and decoding said first

signal; and

1

2

3

5

. 7

8

10

11

12

13

14

15

16

17

- a scan rate conversion unit [[for]] converting a scan rate of said decoded first second signal

  and outputting the second digital signal.
  - 6. (Currently Amended) A method for processing a signal, comprising the steps of: dispensing an output signal output of a first analog signal directly from a personal computer in the form of an analog or digital signal;
  - sending the first analog signal to both a conversion unit and an outputting unit, with the first analog signal being sent to said switching unit without conversion;
  - converting the first analog signal to a first digital signal through said conversion unit;

    performing picture-in-picture signal processing enabling one of a first digital signal of said personal computer signal generated by the step of dispensing said output signal of said first analog signal and a decoded first second signal input from an outside source to be displayed on a main screen and the other to be displayed on at least one sub-screen, and [[for]] processing said first second signal to be displayed alone on said main screen, said first second signal being any one of a television signal and a video signal;

outputting from said switching unit, said first analog signal directly from said personal computer signal generated from the step of dispensing an output signal in response to a control signal for displaying only said first analog signal from said personal computer signal, and outputting an output signal of the step of performing picture-in-picture signal processing in response to a control signal for displaying said first analog signal of said personal computer signal and said first second

18	signal in picture-in-picture format;
19	amplifying the signal output from the step of outputting said analog personal computer signal
20	said switching unit; and
21	displaying said amplified signal output.
1	7. (Currently Amended) The method of claim 6, further comprising the step of converting
2	said picture-in-picture signal output from the step of performing picture-in-picture signal processing
3	into [[an]] a second analog signal from a digital output signal of said signal processing unit before
4	[[a]] the signal is output from the step of outputting said analog personal computer signal from said
. 5	switching unit.
•	
1	8. (Currently Amended) The method of claim 6, with said decoded first second signal input
2	from an outside source, further comprising:
3	converting said first second signal into a second digital signal and decoding said first second
4	signal; and
5	converting a scan rate of said decoded first second signal.
1	9. (Currently Amended) The method of claim 7, with said decoded first second signal input
2	from [[an]] the outside source, further comprising:
3	converting said first second signal into a second digital signal and decoding said first second
4	signal; and

converting a scan rate of said decoded first second signal.

5

1

3

4

5

6

8

٠ 9

10

11

12

13

14

15

16

17

- 10. (Currently Amended) An apparatus for processing a signal, comprising:
- a personal computer generating an output signal accommodating a display of an image generated by said personal computer;
- a signal dispensing unit dispensing said output signal from said personal computer <u>directly</u> to both an outputting unit and a converting unit;
  - a converting unit converting the output signal from an original first analog signal from said personal computer to a first digital signal of said personal computer;
  - a signal processing unit performing picture-in-picture signal processing enabling one of said output signal from said personal computer signal generated dispensed by said signal dispensing unit and a decoded video signal input from an outside source to be displayed on a main screen and the other to be displayed on at least one sub-screen, and [[for]] said signal processing unit processing said video signal to be displayed alone on said main screen;
  - an outputting unit outputting said output signal of the original first analog signal generated from and sent directly from said personal computer signal generated dispensed from said signal dispensing unit in response to a control signal for displaying only said personal computer signal, and outputting an output signal of said signal processing unit in response to a control signal for displaying said personal computer signal and said video signal in picture-in-picture format; and a monitor amplifying and displaying said signal output from said outputting unit.

- 11. (Currently Amended) The apparatus of claim 10, further comprising a signal conversion 1 unit [[for]] converting said picture-in-picture signal output from said signal processing unit from a 2 digital signal into [[an]] a second analog signal before a signal is output from said outputting unit. 3 12. (Currently Amended) The apparatus of claim 10, with said decoded video signal input 1 from [[an]] the outside source, further comprising: 2 a decoding unit converting said video signal into a digital signal and decoding said video 3 signal; and a scan rate conversion unit [[for]] converting a scan rate of said decoded video signal. 5 13. (Currently Amended) The apparatus of claim 12, with said decoded video signal input ٠ 1 from [[an]] the outside source, further comprising: 2 a decoding unit converting said video signal into a digital signal and decoding said video signal; and a scan rate conversion unit [[for]] converting a scan rate of said decoded video signal. 5 14. (Previously Presented) The apparatus of claim 10, further comprised of said video signal being selected from the group consisting of a television video signal and a non-broadcasted video 2 signal. 3
  - 15. (Currently Amended) The apparatus of claim 10, further comprising:

an analog to digital converter unit converting said output signal from said signal dispensing unit from an analog signal into a digital signal for said signal processing unit; and

a digital to analog converter unit converting said output signal generated from said signal dispensing processing unit from a digital signal into an analog signal for said outputting unit and not converting said original first analog signal from said personal computer to said outputting unit and displaying on said monitor said original first analog signal without converting said original first analog signal to a digital signal from said personal computer.

16. (New) An apparatus for processing a signal, comprising:

- 3

a signal dispensing unit dispensing an original first analog signal output from a personal computer to a switching unit and to a first converter unit;

said first converter unit converting the first analog signal from said signal dispensing unit to a first digital signal;

a signal processing unit performing picture-in-picture signal processing enabling one of the first digital signal from said first converter and a decoded second signal as a second digital signal input from an outside source to be displayed on a main screen and the other to be displayed on at least one sub-screen, and said signal processing unit processing said second digital signal to be displayed alone on said main screen, said second digital signal being any one of a television signal and a video signal;

a second converter converting a digital output signal of said signal processing unit into a second analog signal;

said switching unit connected to said second converter and connected to said signal dispensing unit of said personal computer, receiving said first analog signal from said signal dispensing unit and said second analog signal from said second converter, said switching unit outputting the first analog signal dispensed from said signal dispensing unit in response to a control signal for displaying only the original first analog signal, and outputting said second analog signal from said second converter unit in response to a control signal for displaying the first analog signal and said second signal in picture-in-picture format; and

a monitor amplifying a third analog signal output from said switching unit to be displayed.

- 17. (New) The apparatus of claim 16, further comprised of said signal dispensing unit of said personal computer being directly connected to said switching unit.
  - 18. (New) The apparatus of claim 16, further comprised of:

14

15

16

17

18

19

20

21

1

. 2

1

2

3

5

1

2

- said signal dispensing unit of said personal computer being directly connected to said switching unit; and
- said signal dispensing unit of said personal computer being directly connected to said first converter unit.
  - 19. (New) The apparatus of claim 18, further comprised of:
  - said signal processing unit being directly connected to said second converter unit; and said second converter unit being directly connected to said switching unit.

- 20. (New) The apparatus of claim 18, further comprised of:
- a decoding unit converting said second signal from the outside source into said second digital
- signal and decoding said second signal; and
- a scan rate conversion unit directly connected between said decoding unit and said signal
- 5 processing unit and converting a scan rate of said decoded second digital signal output directly to
- 6 said signal processing unit.